

IN THE SPECIFICATION

Replace the paragraph beginning on page 1, col. 1, line 6 with the following new paragraph:

a1  
This invention relates to roofing shingles and a method of making roofing shingles. More particularly, the invention relates to laminated roofing shingles having staggered shadow lines and a method of making such shingles. The staggered shadow lines enhance the three dimensional appearance of a roof surface bearing the laminated shingles.

Replace the paragraph beginning on page 1, col. 1, line 61 with the following new paragraph:

a2  
The present invention is a laminated roofing shingle having staggered shadow lines. The shingle comprises an overlay and an underlay attached to an underside of the overlay. The overlay has a plurality of spaced-apart tabs. An opening is defined between each one of the tabs. Portions of the underlay are exposed through the openings between the tabs. A layer of granules is disposed on the tabs and the underlay. The layer of granules on the lower portion of the overlay are substantially darker in color than the granules on the remainder of the tabs. Similarly, a layer of granules is disposed on the underlay. The layer of granules on the upper portion of the underlay is substantially darker in color than the remainder of granules on the underlay.

Replace the paragraph beginning on page 2, col. 3, line 7 with the following new paragraph:

a3  
As shown in FIGS. 1 through 4, a laminated shingle 10 according to the invention comprises an overlay 12 and an underlay 14. The overlay 12 and underlay 14 cooperate with each other to provide a headlap section 16 and a butt section 18. The overlay 12 has a generally rectangular configuration comprising the headlap section 16. A plurality of tabs 20a, 20b, 20c extend from the headlap section 16 to

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partially form the butt section 18. Depending on the desired application and appearance of the shingles 10, the tabs 20a, 20b, 20c may have equal widths or different widths, such as the different widths W1, W2 shown in FIG. 2. Moreover, the tabs 20a, 20b, 20c may have a square, rectangular, trapezoidal or other geometric configuration. A plurality of openings 22a, 22b, 22c are formed between the tabs 20a, 20b, 20c. The underlay 14 also has a generally rectangular configuration. The underlay 14 is disposed beneath the overlay 12 and attached to an underside 23 of the overlay 12 with a portion of the underlay 14 exposed through the openings 22a, 22b, 22c adjacent the tabs 20a, 20b, 20c.

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REPLACEMENT

Replace the paragraph beginning on page 2, col. 3, line 48 with the following new paragraph:

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In accordance with the preferred embodiment, a fiberglass mat (not shown) is provided as a base material for making the laminated shingle. During manufacture, an asphalt coating is applied to both sides of the fiberglass mat. An undersurface of the laminated shingle 10 may be coated with various inert materials with sufficient consistency to seal the asphalt coating and thus provide a non-tacky undersurface. The exposed outer surface of the laminated shingle, generally indicated in FIG. 1 at 34, is defined by the outer surface 34a of the tabs 20a, 20b, 20c and the portions of the outer surface 34b of the underlay 14 that are exposed through the openings 22a, 22b, 22c adjacent tabs 20a, 20b, 20c. The outer surface 34 of the laminated shingle 10 may be coated with various types of granules 36 (shown in Figs. 2 and 3) to protect the asphalt coating and provide a fire resistant surface. The headlap section 16 of the laminated shingle 10 is generally coated with an inexpensive layer of granules. The butt section 18 of the laminated shingle 10 may be coated with a layer of colored granules to add color to the laminated shingle 10. It should be understood that granules may be of different types and characteristics, to yield different shading, sizing, and/or color arrangements.

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Replace the paragraph beginning on page 2, col. 4, line 5 with the following  
new paragraph:

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An important feature of the laminated shingle 10 according to the present invention includes providing staggered shadow lines or darker granule zones 38, 40 on the outer surface 34 of the laminated shingle 10, as shown in FIG. 1. A first shadow line 38 is provided on the outer surface 34a of the tabs 20a, 20b, 20c, and a second shadow line 40 is provided on the outer surface 34b of the underlay 14. The first shadow line 38 starts at the leading edge 24a of the tabs 20a, 20b, 20c and covers a minority of the outer surface 34a of the tabs 20a, 20b, 20c. A remaining portion, or the majority of the outer surface 34a of the tabs 20a, 20b, 20c, generally indicated in FIG. 2 at 42, is located between the first shadow line 38 and a trailing edge 62 of the tabs 20a, 20b, 20c. The trailing edge 62 (shown in FIG. 6) of the tabs 20a, 20b, 20c is located along a side of the remaining portion 42 of the tabs 20a, 20b, 20c opposite the leading edge 24a of the tabs 20a, 20b, 20c and abuts portions of the leading edge 47 of the headlap section 16. The remaining portion 42 is substantially lighter in color than the first shadow line 38. The second shadow line 40 starts at the trailing edge 44 of the underlay 14 and covers a minority of the outer surface 34b of the underlay 14. A remaining portion, or the majority of the outer surface 34b, of the underlay, generally indicated at 46, is located between the leading edge 24b of the underlay 14 and a trailing edge 44 of the underlay 14. The remaining portion 46 is substantially lighter in color than the second shadow line 40. The remaining portions 42, 46 preferably comprise 80-92 percent of their respective outer surfaces 34a, 34b. Portions of the outer surface 34b of the underlay 14 are exposed through the openings 22a, 22b, 22c adjacent tabs 20a, 20b, 20c with the second shadow line 40 disposed adjacent a leading edge 47 of the headlap section 16. The first shadow line 38 on the leading edge 24a of the overlay 12 and the second shadow line 40 on the trailing edge 44 of the underlay 14 provide staggered shadow lines 38, 40. The darker granules forming the shadow lines 38, 40 of the laminated shingle 10 are seen in marked contrast to the

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cont. lighter granules on the remaining portions 42, 46 of the laminated shingles 10. The granules forming the shadow lines 38, 40 are preferably fine black granules.

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Replace the paragraph beginning on page 3, col. 5, line 11 with the following new paragraph:

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FIG. 6 The method for making laminated shingles 10 further comprises the step 112 of coating the fiberglass mat. The fiberglass mat is preferably coated with asphalt coating. The asphalt coating both coats the glass fibers and fills the void spaces between the glass fibers. Powdered limestone (not shown) may be applied to the undersurface of the fiberglass mat after the asphalt-coating to provide a dry, non-tacky underside for the asphalt coating. It should be understood that various inert materials may be substituted for, or used in combination with, the powdered limestone for this purpose.

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FIG. 6 Replace the paragraph beginning on page 3, col. 5, line 22 with the following new paragraph:

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FIG. 6 Following the asphalt-coating step 112, the method of the invention comprises the step 114 of applying a layer of granules to the outer surface of the tacky asphalt coated fiberglass mat indicated in FIG. 6 at 48. Lower cost granules may be applied to portions of the fiberglass mat corresponding to the headlap section 16 of the overlay 12. Darker colored granules should be applied to portions of the fiberglass mat corresponding to the leading edge 24a of the tabs 20a, 20b, 20c to form the first shadow line 38. Darker colored granules are also applied to the trailing edge 44 of the underlay 14 to form a second shadow line 40. Lighter colored granules should be applied to the remaining portions of the fiberglass mat. FIG. 6 shows a schematic representation of a storage bin or hopper 50 that may be used to apply the desired surface coating to the fiberglass mat. The hopper 50 includes a plurality of partitions 52 which divide the hopper 50 into a plurality of compartments 56, 58, 60. Some of the compartments 56 of the hopper 50 contain lower cost granules that are applied to

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portions of the asphalt-coated fiberglass mat 48 corresponding to the headlap section 16 of the overlay 12. Some of the compartments 58 of the hopper 50 contain darker granules which are applied to portions of the fiberglass mat corresponding to the leading edge 24a of the tabs 20a, 20b, 20c and on the trailing edge 44 of the underlay 14. The other compartments 56, 60 of the hopper 50 contain lighter granules that are applied to the remaining portions 42, 46 of the fiberglass mat. It is to be understood that the blend drops (not shown) can also be applied to the remaining portions 42, 46.

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IN THE CLAIMS

Add the following new paragraphs:

21. A laminated roofing shingle comprising:

an overlay having a tab with a leading edge having granules thereon and a remaining portion having granules thereon, wherein said leading edge granules are darker granules than said remaining portion granules; and

an underlay attached to said overlay, said underlay having a shadow line having granules thereon and a remaining portion having granules thereon, wherein said shadow line granules are darker than said underlay remaining portion granules.

22. A laminated roofing shingle comprising:

an overlay having a tab with a leading edge, a first shadow line, and a remaining portion, the shadow line being positioned between said leading edge and said remaining portion;

a layer of granules disposed on said first shadow line and on said remaining portion of said tab, said granules on said first shadow line being darker in color than said granules on said remaining portion;

an underlay attached to said underside of said overlay to cooperatively form said laminated roofing shingle, said underlay having a leading edge, a second shadow line, and a remaining portion between said leading edge of said underlay and said